



# Fronius Energy Cell for mobile applications

## The HyLOG project

The Fronius HyLOG project has put the internal material transport system onto a new technological basis with the changeover from batteries to fuel cell drives. The economic advantages are the replacement of the lengthy battery charging times by the few minutes required to fill up with hydrogen, plus a doubling of vehicle range. The hydrogen is created on site using solar energy and electrolysis.

The aim of the HyLOG project is to demonstrate this innovative logistics solution in a real industrial application environment. One of the main objectives of the project, apart from an investigation of the entire system, is the creation of a model to help accelerate the time-to-market of this innovative technology.

The HyLOG vehicle is a model mobile application of the Fronius Energy Cell.



POWERING YOUR FUTURE

## The HyLOG project



## Unique selling points:



The key features of the fuel cell drive in the electronic vehicle market segment are:

- long battery charging times of 8 to 10 hours replaced by short filling times of just a few minutes (< 5 min)
- double the power density and range
- improved road performance
- reduced operating costs through longer service life of the fuel cell system
- emission-free and extremely quiet

The key features of the fuel cell drive in the market for vehicles with internal combustion engines are:

- no toxic emissions, extremely quiet
- factorial improvement in energy efficiency (approx. 3 times as effective)
- wider area of application (e.g. use in halls)

The Fronius Energy Cell is now available for mobile use as 2 kW/24 V and 4 kW/48 V.  
Its modularity enables it to be used in a wide range of ground conveyor applications.

The Fronius Energy Cell is a pioneering technology for use in modern electronic vehicles, such as minibuses, light vehicles and leisure applications with a peak drive power of up to 15 kW.



**FRONIUS INTERNATIONAL GMBH**  
A 4600 Wels-Thalheim, Buxbaumstraße 2  
Tel: +43 (0) 7242 241-0, Fax: +43 (0) 7242 241-2240  
E-Mail: [energycell@fronius.com](mailto:energycell@fronius.com)  
[www.fronius.com](http://www.fronius.com)